

## EPR Epoxy Primer

Two-component, anti-corrosive epoxy primer for metal substrates

### Product Description

**EPR** Epoxy Primer is a two-component, high-solids epoxy primer with a long-lasting anti-corrosive effect. It is suitable for applications on plastic fiberglass or metal surfaces. It contains anti-corrosive pigments, while conforming low fire spreadability requirements. It is ideal for applications where corrosion protection, high substrate coverage, impact and abrasion resistance are needed. Its composition with high solids (high-build) covers uneven surfaces and helps to dry quickly, compared to other epoxies. It can be coated with any kind of color and texture.

### Recommended Use

As an excellent quick drying primer for corrosion protection, **EPR** is ideal for surfaces exposed to marine environment above and below the waterline. It can be applied to all surfaces which need primer before painting as it's a fast-drying corrosion protective paint that smoothens rough surfaces. Due to its universal character, it can be covered by any type of coating (epoxy or not) and antifouling. It can also be used as a sealer / bonding layer over existing epoxy primers.

### Technical Specifications

<b>Type</b> ▶	Epoxy Polyamide	<b>Touch Dry Time</b> ▶	30min @ 20°C
<b>Components</b> ▶	Base A & Hardener B	<b>Dry Through Time</b> ▶	4h @ 20°C
<b>Color</b> ▶	Red Brown/ Cream / Grey	<b>Full Curing Time</b> ▶	7d @ 20°C
<b>Thinner/Solvents</b> ▶	NanoPhos Thinner A	<b>Min. Recoat Interval</b> ▶	6h @ 20°C
<b>Mixing Ratio</b> ▶	4:1, A: B per volume	<b>Induction Time</b> ▶	15min @ 20°C
<b>VOC</b> ▶	<300 g/L	<b>Flash Point</b> ▶	>23°
<b>Solids (%vol)</b> ▶	80±3	<b>Water Resistance</b> ▶	Excellent
<b>Max. Pot Life</b> ▶	6h @ 20°C	<b>Abrasion Resistance</b> ▶	Excellent

(\*) Dry-to-recoat time is prolonged under low temperature and high humidity

Approved by Bureau Veritas & DBI (Danish Institute of Fire and Security Technology), in accordance with the requirements and standards of IMO for low flame-spread (Reference to IMO 2010, FTP Code, Part 5). Certificates can be provided upon request.

#### NanoPhos S.A.

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### Surface Preparation

Existing Compatible Substrate: All surfaces must be clean, dry and free of oil, grease and other foreign matter or contamination. Preparation according to standard ISO 8502-3:1992. Control of surface cleanliness according to standard ISO 8501-3: 2006. Visual assessment of surface cleanliness.

Surfaces under Isalo without substrate: Sandblasting Sa 2½ with a profile between 30-75 µm. Reference standard: ISO 8501-1: 2007.

### Application Instructions

**Mixing:** Mix the entire contents of the Base A with the Hardener B. If using a separate mixing bucket, mix carefully ensuring that all contents of the base and hardener containers are removed. Mix using an electric mixer on low speed for about two minutes or until the two ingredients are completely combined. Application with a vacuum sprayer is recommended.

**Application:** The application of **EPR** can be done by conventional sprays, vacuum sprayers, as well as by roller or brush. The above are indicative methods of application and it is at the discretion of each person as to which method to apply. The substrate temperature must be at least 5°C and at least 3°C above the dew point of the air. Good ventilation is required to ensure proper drying.

Conventional Spraying ▶	Paint pressure pot with power agitator, double air regulators, moisture trap, 1/2" ID fluid hose, 5/16" ID air hose, DeVilbiss 510 gun, "E" tip and needle, 74 or 78 air cap.
Airless Spray ▶	Minimum pump: 30:1, Nozzle: 19-23
Brush ▶	Recommended application method only for stripe coating or small narrow areas.

This product is intended for professional use only. Applicators and operators must be trained, experienced and have the ability and equipment to mix and apply coatings correctly and in accordance with NanoPhos technical documentation. Applicators and operators must use appropriate personal protective equipment when using this product. This guideline is given based on current knowledge of the product. To be used in well-ventilated conditions.

### Coverage

#### FILM THICKNESS PER COAT

	Minimum	Maximum	Recommended
Dry Film Thickness (µm)	80	180	100
Wet Film Thickness (µm)	100	225	125
Spreading Rate (m <sup>2</sup> /L)	10	4.44	8

The drying time varies between minimum and maximum values. Maintain recommended values during application. The coverage rates are theoretical and do not include fees.

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### Additional Information

#### Paint System

Please contact NanoPhos Marine for more information.

### Storage

Store in the original closed packaging, in a well-ventilated area, at a temperature of 5°C to 35°C, away from sunlight and frost.

### Health and Safety

Read the product label before use. The Safety Data Sheet is available on [www.NanoPhos.com](http://www.NanoPhos.com) or on request by contacting NanoPhos by email: [info@NanoPhos.com](mailto:info@NanoPhos.com) or by phone: 2292069312.

### Available Packaging

- 2.5L Unit (Total 2.5L in two metal containers, 4:1 | A: B per volume)
- 5L Unit (Total 5L in two metal containers, 4:1 | A: B per volume)
- 20L Unit (Total 20L in two metal containers, 4:1 | A: B per volume)

- **Notes & Precautions:** Adverse weather conditions during or after the product application may affect the properties of the coating. Storage of closed containers, in controlled dry and enclosed space, away from sources of ignition and temperatures from 5°C to 35°C, for up to 18 months. The Technical Data should be read in conjunction with the Safety Data Sheets. The current edition of this technical data sheet automatically cancels any previous one concerning the same product. For more information, please contact NanoPhos: [info@NanoPhos.com](mailto:info@NanoPhos.com)
- The technical data sheets and the recommendations for using NanoPhos products are based on our scientific knowledge, laboratory studies, and long-term experience. Therefore, the information provided must be considered indicative and subject to constant review in relation to the circumstances and each practical application. Furthermore, the product's suitability should be examined in each case for each specific use. The end-user bears complete & exclusive responsibility for any side effects that may arise from the incorrect use of the product.

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